

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



In re patent application of
LI, Jing et al.

Attorney Docket No: 38002-0023

Application No.: 10/073,123

Confirmation No.: 2334

Filed: February 12, 2002

Group Art Unit: 3736

For: AMPLIFIED CANCER GENE WIP1

Examiner: Unassigned

**STATEMENT TO SUPPORT FILING AND SUBMISSION IN
ACCORDANCE WITH 37 C.F.R. §§ 1.821-1.825**

Commissioner for Patents
Washington, D.C. 20231
Box SEQUENCE

Sir:

In connection with a Sequence Listing submitted concurrently herewith, the undersigned hereby states that:

1. the submission, filed herewith in accordance with 37 C.F.R. § 1.821(g), does not include new matter; and

2. the content of the attached paper copy and the attached computer readable copy of the Sequence Listing, submitted in accordance with 37 C.F.R. § 1.821(c) and (e), respectively, are the same.

Respectfully submitted,



John P. Isaacson
Reg. No. 33,715

April 24, 2002
Date

Heller Ehrman White & McAuliffe LLP
1666 K Street, N.W.
Suite 300
Washington, D.C. 20006
Telephone: (202) 912-2000
Facsimile: (202) 912-2020



26633



SEQUENCE LISTING

<110> LI, Jing
POWERS, Scott

<120> AMPLIFIED CANCER GENE WIP1

<130> 38002-0023

<140> US 10/073,123
<141> 2002-02-12

<150> US 60/268,362
<151> 2001-02-14

<160> 3

<170> PatentIn version 3.1

<210> 1
<211> 1818
<212> DNA
<213> Homo sapiens

<400> 1
atggcggggc tgtactcgct gggagtgagc gtcttctccg accagggcgg gaggaagtac 60
atggaggacg ttactcaa at cggtgtggag cccgaaccga cggctgaaga aaagccctcg 120
ccgcggcggt cgctgtctca gccgttgcc ct ccgcggccgt cgccggccgc cttcccg 180
ggcgaagtct cggggaaagg cccagcggtg gcagcccgag aggctcgca ccctctcccg 240
gacgccccggg cctcgccggc acctagccgc tgctgcccgc gccgttcctc cgtggccctt 300
ttcgccgtgt gcgacgggca cggcggcggt gaggcggcac agtttgcctt ggagcacttg 360
tggggtttca tcaagaagca gaagggttcc acctcgccg agccggctaa ggtttgcgt 420
gccatccgca aaggcttct cgcttgcac cttgccatgt ggaagaaact ggcggaaatgg 480
ccaaagacta tgacgggtct tcctagcaca tcagggacaa ctgccagtgt ggtcatcatt 540
cggggcatga agatgtatgt agctcacgta ggtgactcag gggtggtct tggaaattcag 600
gatgaccgcg aggatgactt tgtcagagct gtggagggtga cacaggacca taagccagaa 660
cttcccaagg aaagagaacg aatcgaagga cttgggtggga gtgtaatgaa caagtctggg 720
gtgaatcggtg tagttggaa acgacctcgat ctcactcaca atggacctgt tagaaggagc 780
acagttatttgc accagattcc ttttctggca gtagcaagag cacttgggtga tttgtggagc 840
tatgatttct tcagtggtga atttgtggtg tcacactgaac cagacacaag tgtccacact 900
cttgacccttc agaaggcaca gtatattata ttggggagtg atggactttg gaatatgatt 960
ccaccacaag atgccatctc aatgtgccag gaccaagagg agaaaaata cctgatgggt 1020
gagcatggac aatcttgc caaaatgctt gtgaatcgag cattggccg ctggaggcag 1080

cgtatgctcc gagcagataa cactagtgc atagtaatct gcatctctcc agaagtggac 1140
aatcagggaa actttaccaa tgaagatgag ttatacctga acctgactga cagccttcc 1200
tataatagtc aagaaacctg tgtgatgact cctcccccattt gttctacacc accagtcaag 1260
tcactggagg aggatccatg gccaagggtg aattctaagg accatataacc tgccctggtt 1320
cgttagcaatg ctttcaga gaattttta gaggttcag ctgagatagc tcgagagaat 1380
gtccaagggtg tagtcatacc ctcaaaagat ccagaaccac ttgaagaaaa ttgcgctaaa 1440
gccctgactt taaggataca tgattcttg aataatagcc ttccaattgg ccttgcgcct 1500
actaattcaa caaacactgt catggaccaa aaaaatttga agatgtcaac tcctggccaa 1560
atgaaagccc aagaaattga aagaaccctt ccaacaaact ttaaaaggac attagaagag 1620
tccaattctg gccccctgat gaagaagcat agacgaaatg gcttaagtgc aagtagtggt 1680
gctcagcctg caagtctccc cacaacctca cagcggaaaga actctgttac actcaccatg 1740
cgacgcagac ttaggggcca gaagaaaattt gcaaattcatt tacttcatca acacaggaaa 1800
actgtttgtg tttgctga 1818

<210> 2
<211> 605
<212> PRT
<213> Homo sapiens

<400> 2
Met Ala Gly Leu Tyr Ser Leu Gly Val Ser Val Val Phe Ser Asp Gln Gly
1 5 10 15
Gly Arg Lys Tyr Met Glu Asp Val Thr Gln Ile Val Val Glu Pro Glu
20 25 30
Pro Thr Ala Glu Glu Lys Pro Ser Pro Arg Arg Ser Leu Ser Gln Pro
35 40 45
Leu Pro Pro Arg Pro Ser Pro Ala Ala Leu Pro Gly Gly Glu Val Ser
50 55 60
Gly Lys Gly Pro Ala Val Ala Ala Arg Glu Ala Arg Asp Pro Leu Pro
65 70 75 80
Asp Ala Gly Ala Ser Pro Ala Pro Ser Arg Cys Cys Arg Arg Ser
85 90 95
Ser Val Ala Phe Phe Ala Val Cys Asp Gly His Gly Gly Arg Glu Ala
100 105 110
Ala Gln Phe Ala Arg Glu His Leu Trp Gly Phe Ile Lys Lys Gln Lys
115 120 125
Gly Phe Thr Ser Ser Glu Pro Ala Lys Val Cys Ala Ala Ile Arg Lys
130 135 140

Gly Phe Leu Ala Cys His Leu Ala Met Trp Lys Lys Leu Ala Glu Trp
145 150 155 160

Pro Lys Thr Met Thr Gly Leu Pro Ser Thr Ser Gly Thr Thr Ala Ser
165 170 175

Val Val Ile Ile Arg Gly Met Lys Met Tyr Val Ala His Val Gly Asp
180 185 190

Ser Gly Val Val Leu Gly Ile Gln Asp Asp Pro Lys Asp Asp Phe Val
195 200 205

Arg Ala Val Glu Val Thr Gln Asp His Lys Pro Glu Leu Pro Lys Glu
210 215 220

Arg Glu Arg Ile Glu Gly Leu Gly Ser Val Met Asn Lys Ser Gly
225 230 235 240

Val Asn Arg Val Val Trp Lys Arg Pro Arg Leu Thr His Asn Gly Pro
245 250 255

Val Arg Arg Ser Thr Val Ile Asp Gln Ile Pro Phe Leu Ala Val Ala
260 265 270

Arg Ala Leu Gly Asp Leu Trp Ser Tyr Asp Phe Phe Ser Gly Glu Phe
275 280 285

Val Val Ser Pro Glu Pro Asp Thr Ser Val His Thr Leu Asp Pro Gln
290 295 300

Lys His Lys Tyr Ile Ile Leu Gly Ser Asp Gly Leu Trp Asn Met Ile
305 310 315 320

Pro Pro Gln Asp Ala Ile Ser Met Cys Gln Asp Gln Glu Glu Lys Lys
325 330 335

Tyr Leu Met Gly Glu His Gly Gln Ser Cys Ala Lys Met Leu Val Asn
340 345 350

Arg Ala Leu Gly Arg Trp Arg Gln Arg Met Leu Arg Ala Asp Asn Thr
355 360 365

Ser Ala Ile Val Ile Cys Ile Ser Pro Glu Val Asp Asn Gln Gly Asn
370 375 380

Phe Thr Asn Glu Asp Glu Leu Tyr Leu Asn Leu Thr Asp Ser Pro Ser
385 390 395 400

Tyr Asn Ser Gln Glu Thr Cys Val Met Thr Pro Ser Pro Cys Ser Thr
405 410 415

Pro Pro Val Lys Ser Leu Glu Asp Pro Trp Pro Arg Val Asn Ser
420 425 430

Lys Asp His Ile Pro Ala Leu Val Arg Ser Asn Ala Phe Ser Glu Asn
435 440 445

Phe Leu Glu Val Ser Ala Glu Ile Ala Arg Glu Asn Val Gln Gly Val
450 455 460

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ile | Pro | Ser | Lys | Asp | Pro | Glu | Pro | Leu | Glu | Glu | Asn | Cys | Ala | Lys |
| 465 | | | | | 470 | | | | 475 | | | | | 480 | |
| Ala | Leu | Thr | Leu | Arg | Ile | His | Asp | Ser | Leu | Asn | Asn | Ser | Leu | Pro | Ile |
| | | | | 485 | | | | 490 | | | | | 495 | | |
| Gly | Leu | Val | Pro | Thr | Asn | Ser | Thr | Asn | Thr | Val | Met | Asp | Gln | Lys | Asn |
| | | | | | 500 | | | 505 | | | 510 | | | | |
| Leu | Lys | Met | Ser | Thr | Pro | Gly | Gln | Met | Lys | Ala | Gln | Glu | Ile | Glu | Arg |
| | | | | 515 | | | | 520 | | | 525 | | | | |
| Thr | Pro | Pro | Thr | Asn | Phe | Lys | Arg | Thr | Leu | Glu | Glu | Ser | Asn | Ser | Gly |
| | | | | 530 | | | | 535 | | | 540 | | | | |
| Pro | Leu | Met | Lys | Lys | His | Arg | Arg | Asn | Gly | Leu | Ser | Arg | Ser | Ser | Gly |
| | | | | 545 | | | | 550 | | | 555 | | | 560 | |
| Ala | Gln | Pro | Ala | Ser | Leu | Pro | Thr | Thr | Ser | Gln | Arg | Lys | Asn | Ser | Val |
| | | | | 565 | | | | 570 | | | 575 | | | | |
| Lys | Leu | Thr | Met | Arg | Arg | Arg | Leu | Arg | Gly | Gln | Lys | Lys | Ile | Gly | Asn |
| | | | | 580 | | | | 585 | | | 590 | | | | |
| Pro | Leu | Leu | His | Gln | His | Arg | Lys | Thr | Val | Cys | Val | Cys | | | |
| | | | | 595 | | | | 600 | | | 605 | | | | |

<210> 3
 <211> 2973
 <212> DNA
 <213> Homo sapiens

| | | | | | | | | | | | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|--|--|--|--|--|--|--|--|--|--|-----|
| <400> 3 | | | | | | | | | | | | | | | | |
| ctggctctgc | tcgctccggc | gctccggccc | agctctcgcg | gacaagtcca | gacatcgcbc | | | | | | | | | | | 60 |
| gccccccctt | ctccgggtcc | gccccctccc | ccttctcgcc | gtcgtcgaag | ataaaacaata | | | | | | | | | | | 120 |
| gttggccggc | gagcgccctag | tgtgtctccc | gccgcccggat | tcggcgggct | gcgtgggacc | | | | | | | | | | | 180 |
| ggcgggatcc | cggccagccg | gccatggcgg | ggctgtactc | gctgggagtg | agcgtcttct | | | | | | | | | | | 240 |
| ccgaccaggg | cgggaggaag | tacatggagg | acgttactca | aatcggtgtg | gagcccgaac | | | | | | | | | | | 300 |
| cgacggctga | agaaaaagccc | tcgccgcccgc | ggtcgctgtc | tcaagccgttg | cctccgcccgc | | | | | | | | | | | 360 |
| cgtcgccggc | cgccttccc | ggcggcgaag | tctcggggaa | aggcccagcg | gtggcagccc | | | | | | | | | | | 420 |
| gagaggctcg | cgaccctctc | ccggacgccc | gggcctcgcc | ggcaccttagc | cgctgctgcc | | | | | | | | | | | 480 |
| gccgcccgttc | ctccgtggcc | ttttcgccc | tgtgcacgg | gcacggcggg | cgggaggcgg | | | | | | | | | | | 540 |
| cacagtttgc | ccgggagcac | ttgtgggtt | tcatcaagaa | gcagaagggt | ttcacacctcg | | | | | | | | | | | 600 |
| ccgagccggc | taagggttgc | gctgccatcc | gcaaaggctt | tctcgcttgc | caccttgcca | | | | | | | | | | | 660 |
| tgtggaagaa | actggcgaa | tggccaaaga | ctatgacggg | tcttccttagc | acatcaggga | | | | | | | | | | | 720 |
| caactgccag | tgtggtcatc | attcggggca | tgaagatgta | tgtagctcac | gtaggtgact | | | | | | | | | | | 780 |
| caggggtggt | tcttggaaatt | caggatgacc | cgaaggatga | ctttgtcaga | gctgtggagg | | | | | | | | | | | 840 |

tgacacagga ccataagcca gaacttccc agaaaagaga acgaatcgaa ggacttggtg 900
ggagtgtaat gaacaagtct ggggtgaatc gtgtagttt gaaacgacct cgactcactc 960
acaatggacc tgtagaagg agcacagttt ttgaccagat tcctttctg gcagtagcaa 1020
gagcacttgg tgatttgg agctatgatt tcttcagtgg tgaatttgg gtgtcacctg 1080
aaccagacac aagtgtccac actcttgacc ctcagaagca caagtatatt atattgggaa 1140
gtgatggact ttggaatatg attccaccac aagatgccat ctcaatgtgc caggaccaag 1200
aggagaaaaa atacctgatg ggtgagcatg gacaatctt tgccaaaatg cttgtgaatc 1260
gagcattggg ccgctggagg cagcgtatgc tccgagcaga taacactagt gccatagtaa 1320
tctgcatctc tccagaagtg gacaatcagg gaaacttac caatgaagat gagttatacc 1380
tgaacctgac tgacagccct tcctataata gtcaagaaac ctgtgtgatg actccttccc 1440
catgttctac accaccagtc aagtcactgg aggaggatcc atggccaagg gtgaattcta 1500
aggaccatat acctgccctg gttcgttagca atgccttctc agagaatttt tttagaggttt 1560
cagctgagat agctcgagag aatgtccaag gtgtagtc acctcaaaa gatccagaac 1620
cacttgaaga aaattgcgct aaagccctga ctttaaggat acatgattct ttgaataata 1680
gccttccaaat tggcccttggc cctactaatt caacaaacac tgtcatggac caaaaaaatt 1740
tgaagatgtc aactcctggc caaatgaaag cccaaagaaat taaaagaacc cctccaacaa 1800
actttaaaag gacatttagaa gagtccaatt ctggccccc gatgaagaag catagacgaa 1860
atggcttaag tcgaagtagt ggtgctcagc ctgcaagtct ccccacaacc tcacagcgaa 1920
agaactctgt taaactcacc atgcgacgca gacttagggg ccagaagaaa attggaaatc 1980
ctttacttca tcaacacagg aaaactgttt gtgtttgctg aaatgcattt gggaaatgag 2040
gtttttccaa acttaggata taagaggct ttttaaattt ggtgccatg ttgaactttt 2100
tttaagggga gaaaattaaa agaaatatac agtttgactt tttggaaattc agcagtttt 2160
tcctggcctt gtacttgctt gtattgtaaa tgtggatttt gttagatgtt gggataagt 2220
tgctgtaaaa tttgtgtaaa tttgtatcca cacaattca gtctctgaat acacagtatt 2280
cagagtctct gatacacagt aattgtgaca ataggctaa atgtttaaag aaatcaaaag 2340
aatctattag attttagaaa aacattaaa ctttttaaaa tacttattaa aaaatttgc 2400
taagccactt gtcttgaaaa ctgtgcaact ttttaaagta aattattaag cagactggaa 2460
aagtgtatgt ttttcatagt gacctgtgtt tcacttaatg tttcttagag ccaagtgtct 2520
tttaaacatt attttttatt tctgatttca taattcagaa ctaaattttt catagaagtg 2580
ttgagccatg ctacagttt tcttgcctt attaaaatac tatgcagtat ctcttacatc 2640

agtagcattt ttctaaaacc ttagtcatca gatatgctta ctaaatcttc agcatagaag 2700
gaagtgtgtt tgcctaaaac aatctaaaac aattcccttc ttttcatcc cagaccaatg 2760
gcattattag gtcttaaagt agttactccc ttctcgtgtt tgcttaaaat atgtgaagtt 2820
ttccttgcta tttcaataac agatggtgct gctaattccc aacatttctt aaatttatttt 2880
atatcataca gtttcattt attatatggg tatatatca tctaataaaat cagtgaactg 2940
ttcctcatgt tgctgaaaaa aaaaaaaaaa aaa 2973